



MOTOROLA

FAX TRANSMITTAL SHEET

Motorola, Inc.
Intellectual Property Section
Law Department
1303 E. Algonquin Road
Schaumburg, IL 60196

Telephone: (847) 576-6937

Facsimile: (847) 576-3750



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MESSAGE:

Enclosed herewith, as you requested, please find page 17 of the Specification for the below-identified application.

EXAMINER:
GROUP ART UNIT:
SERIAL NO.:
FILED:
INVENTOR:

Feben Haile
2663
10/628,680
July 28, 2003
Thomas P. Krauss

preferred embodiment of the present invention. The logic flow begins at step 1001 where a multicarrier signal is received comprising a plurality of subcarriers. In the preferred embodiment of the present invention the received signal comprises a multicarrier signal having relatively time-shifted chip streams existing on at least two subcarriers. The received signal is demodulated to produce a plurality of chip streams (step 1003). At step 1005 the chip stream is despread with a pilot code during a first symbol period to produce a first channel estimate for the first symbol period, and at step 1007 the chip stream is despread with the pilot code during a second symbol period to produce a second channel estimate for the second symbol period. In the preferred embodiment of the present invention the first and the second symbol periods are non-overlapping in time and in the alternate embodiment of the present invention the first and the second symbol periods are non-overlapping in frequency.

Continuing, at step 1009 a third channel estimate is produced for a portion of the first symbol period based on the first and the second channel estimates, and at step 1011 a fourth channel estimate is generated for a second portion of the first symbol period based on the first and the second channel estimates.

While the invention has been particularly shown and described with reference to a particular embodiment, it will be understood by those skilled in the art that various changes in form and details may be made therein without departing from the spirit and scope of the invention. For example, although the above description was given primarily involving OFDM modulation, one of ordinary skill in the art will recognize that other multicarrier modulation techniques may be utilized as well. Additionally, although the embodiments described above deal with time and frequency spreading separately, one of ordinary skill in the art will recognize that a combination of both simultaneous time and frequency spreading as described above may be utilized as well. It is intended that such changes come within the scope of the following claims.